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L2 L1 and ("dummy order" or placeholder or auxiliary or duplicate or substitut$4 or tentative)
L3 L2 and ((swap$4 or switch$3 or exchang$4) with (order or capacity or reservation))

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IBM Beefs Up 'On Demand' Offerings.

Date: May 1 , 2003

11/6,K/1 (Item 1 from file: 148)
15785128 **Supplier Number:** 101011740 (USE FORMAT 7 OR 9 FOR FULL TEXT)
IBM Beefs Up 'On Demand' Offerings.

May 1 , 2003
Word Count: 571 **Line Count:** 00050

...even though I haven't put all that stuff into place," he added.
Bobby Blumofe, vice president of technology strategy at Akamai, said, "All the **capacity planning** needs ...meet service levels. This offering will be available later this quarter, the company said.
IBM also announced: Web Server Provisioning, which enables users to immediately **switch** or add servers to increase **capacity**; Standby **Capacity** On Demand, which enables IBM blade server and storage customers to purchase a fully loaded blade or storage system for a fraction of its overall...

...a six-month period; and IBM's Open Infrastructure Offering, which enables customers to pay for their infrastructure requirements for a single monthly price, and **substitute** new technologies as needed.
In addition, IBM announced a new storage Virtualization family of products to help users lower their maintenance costs and

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The data keepers

Date: Oct 21, 2002

11/6,K/2 (Item 2 from file: 15)
02442441 219696891
**
The data keepers

Oct 21, 2002 **Length:** 1 Pages
Word Count: 838
Text:

...Voegele, manager of the enterprise storage group at Supervalu Inc., prefers experience. "Training or a certification doesn't hurt a resume, but there's no **substitute** for on-the-job training," he says. a Backup-and-recovery methodologies. Eric Ogilvie, manager of enterprise storage at State Farm, says this is an...

...program tests only knowledge of Fibre Channel SANs, but the association says future modules will include network-attached storage, IP storage, backup-and-restore and **capacity planning** (www.snia.org).

* There are myriad vendor-specific training courses available. For example, you can find information on training and certification for EMC Corp. products...

...developer in Oklahoma City. This is a systems administration position with responsibility for data storage and configuration control. Candidates

need five years' experience with Unix, **capacity planning** and storage management.

Salary: $46,500 to $52,000

Best Place

Supervalu Inc. Eden Prairie, Minn.

* www.supervalu.com
* Food retailer and distributor

* Ranked No...

..to Bill Voegele, manager of Supervalu's enterprise storage group. His department just finished a major upgrade of its 11TB SAN. In the overhaul, Supervalu **swapped** in four newer directors with double the **capacity** of the ones they replaced and doubled the SAN's open ports to 256.

What Voegele says he's proudest of is that all this...

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The data keepers: what you need to know to land a job and keep your skills fresh in the storage field. (Knowledge Center Storage).

Date: Oct 21 , 2002

11/6,K/3 (Item 3 from file: 148)
15779823 **Supplier Number:** 99569544 (USE FORMAT 7 OR 9 FOR FULL TEXT)
The data keepers: what you need to know to land a job and keep your skills fresh in the storage field. (Knowledge Center Storage).

Oct 21 , 2002
Word Count: 868 **Line Count:** 00074

...Voegele, manager of the enterprise storage group at Supervalu Inc., prefers experience. "Training or a certification doesn't hurt a resume, but there's no **substitute** for ...program tests only knowledge of Fibre Channel SANs, but the association says future modules will include network-attached storage, IP storage, backup-and-restore and **capacity planning** (www. ...developer in Oklahoma City. This is a systems administration position with responsibility for data storage and configuration control. Candidates need five years' experience with Unix, **capacity planning** and storage management.
Salary: $46,500 to $52,000
Is It Hot?
MARKET: "In the ...to Bill Voegele, manager of Supervalu's enterprise storage group. His department just finished a major upgrade of its 11TB SAN. In the overhaul, Supervalu **swapped** in four newer directors with double the **capacity** of the ones they replaced and doubled the SAN's open ports to 256.
What Voegele says he's proudest of is that all this...

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Optimal allocation of inspection effort over a finite planning horizon.

Date: June , 2002

11/6,K/4 (Item 4 from file: 148)
14502639 **Supplier Number:** 84545559 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Optimal allocation of inspection effort over a finite planning horizon.

June , 2002
Word Count: 9642 **Line Count:** 00825

...the considered interval of time. Optimal values of inspection intensities for the inspection in partial mode stated in this lemma are then immediately obtained by **substituting** Equation (1) into the last equality.
The second way that allows the condition in Equation (11) to be met is if there are at least...

...and due to the complementary slackness (7) (E.sub.s")(t) = 0 and, hence, (E.sub.s")(t) = 0 at the interval of time. By **substituting** Equation (1) into (E.sub.s")(t) = 0 and taking into account that (Q.sub.n) and (R.sub.mn) are known constants, we see...sub.mn)(r.sub.mn)(t)) / (R.sub.(m.sup.*)(n)n),
n = 1,2,...,N. (17)
Proof. Let us transform Equation (1) by recursively **substituting** the expressions for (E.sub.n-1)(t) into (E.sub.n)(t) starting from n = 2. In this way we find at the considered...

...t) = ... = (E.sub.N)(t) = 0 over the given time interval. Consequently, (E.sub.1)(t) = (E.sub.2)(t) = ... = (E.sub.N)(t) = 0.
Substituting into the last equation immediately proves Corollary 2.
6. Optimal sequencing of inspection modes
Given the optimal inspection modes, the next step in the analysis...

...sub.2n)/(R.sub.2n) (less than or equal to) ... (less than or equal to) (c.sup.r.sub.Mn)/(R.sub.Mn),
the optimal **switching** on of inspection activities occur in **order** (GAMMA), and the optimal **switching** off occurs in the reverse **order**.
Proof. The proof follows immediately from Lemma 2 and from optimality conditions (8).
Corollary 4. Given that at time interval (tau) (euro) (0, (t.sup...

...20) contain Equations (18) and (19) for n = N and n = N - 1. The rest of them are obtained in the same manner by continuing **substitutions**

down to stage 1.
7. Switching points
So far properties of the optimal inspection activities at every separate point of time have been studied as...

...or equal to) t (less than or equal to) (t.sub.n), the only behavior feasible for this variable is to either gradually decrease before **switching** point (t.sub.n) or to jump down at (t.sub.n) in **order** to become negative prior to (E.sub.n)(t) > 0 and then to increase to zero as stated in this lemma.
Lemma 3 proves that...solution is feasible if the first switching point is nonnegative, (t.sub.N) = (t.sup.n.sub.0) (greater than or equal to) 0. By **substituting** (22) in the last inequality we obtain
(c.sup.r.sub.(m.sup.*)(N)N)/(R.sub.(m.sup.*)(N)N) 1/(c.sup.E...is consecutive as stated in the lemma. This implies that (t.sub.N) (less than or equal to) (t.sub.N-1) must hold. By **substituting** (24) into the last inequality, we find that the following must hold:
(c.sup.r.sub.(m.sup.*)(N)N)/(R.sub.(m.sup.*)(N...Tel Aviv University, Ramat Aviv, Tel Aviv 69978, Israel
E-mail: tzviraz@post.tau.ac.il
References
Gurnani, H., Drezner, Z. and Akella, R. (1996) **Capacity planning** under different inspection strategies. European Journal of Operational Research, 89(2), 302-312.
Kaspi, M. and Raz, T. (1994) Optimal sequencing of production and inspection...

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Check switches before you upgrade: new Ethernet may be too big for your hardware.

Date: May 23 , 2002

11/6,K/5 (Item 5 from file: 16)
09789198 **Supplier Number:** 86188337

Check switches before you upgrade: new Ethernet may be too big for your hardware.
May 23 , 2002
Word Count: 390
-

...have an 8gbps limit on the backplane - effectively the internal bus of a switching device.
While it is possible to upgrade from Gigabit Ethernet by **substituting** higher-bandwidth network cards in an existing **switch** chassis, an increase in **capacity** to 10gbps could be limited in many cases because of this backplane problem.
Andy Rolfe, an analyst at Gartner, said, "With a tenfold increase in ...

...need to be careful that the backplane will handle upgrades to 10 Gigabit Ethernet network cards. Network managers need to ensure that careful design and **capacity planning** are carried out."
The Institute of Electrical and Electronics Engineers (IEEE) has yet to ratify 10 Gigabit Ethernet as a standard. Originally due to be...

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Economic prospects and policy issues.(Statistical Data Included)

Date: April , 2002

11/6,K/6 (Item 6 from file: 148)
14656401 **Supplier Number:** 86745805 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Economic prospects and policy issues.(Statistical Data Included)

April , 2002
Word Count: 30399 **Line Count:** 03126

...over 50 years in 2001, with the events of September 11-- particularly through their impact on trade, tourism, and financial market confidence-- setting back the **tentative** signs of recovery that had been emerging following the economic and financial crisis at the start of the year. While recent real and financial have...the slowdown in activity has been more pronounced, and growth is expected to be negative in 2002, partly reflecting the more difficult fiscal situation. In **order** to reduce inflation and avoid a sustained appreciation of their real **exchange** rates, oil exporting countries should maintain prudent macroeconomic policies.
The main policy priority, however, remains the need to diversify production into other sectors than energy...decision making for a sustainable, noninflationary recovery.
Afghanistan may receive postconflict financial assistance under the Fund's Emergency Assistance Facility once there is sufficient capacity **for** planning **and** policy implementation. Once a medium-term economic strategy has been elaborated, the Policy Reform and Growth

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Serve your supply chain, not operations - a case study

Date: 2001

11/6,K/7 (Item 7 from file: 15)
02542976 246383601
**
Serve your supply chain, not operations - a case study

2001 **Length:** 12 Pages
Word Count: 5573
Text:

...3

The following alternative methods of production scheduling were investigated in order to make up for the limitations of MRP:
* Upgrade MRP to use finite **capacity planning** (FCP) or manufacturing execution systems (MES) (McCarthy and Barber, 1990; Wingate, 1996).

* Implement Kanban and lean production (Womack and Jones, 1996; Millard, 1998).

* Apply drum...to exchange information with several large customers. It received advance warning of changes in the market and, thereby, improved response times even further. The information **exchange** led to a smoother **order** and delivery process and alleviated the assembly operation's concerns about unplanned large customer orders (Beckett et al., 2000).

Results from the pilot project

This...

...improved conditions in 1998 resulted in fewer back-orders. When backorders did occur they could be filled within a week. Noramco's competitors could not **duplicate** performance. For this reason, it can be assumed that the $100,000 monthly sales increase was largely a result of process changes incorporated during 1997...the season. The two different scheduling modes for the assembly operation still create problems. And the division has yet to determine the optimum time to **switch** from producing-to-stock to producing-to-**order**. Generally an increase in back-**order** level triggers the transition.

Lessons learned from the pilot project

This pilot project shows the significance of synchronizing decisions and their impact "within" and "between...manufacturing barriers", Datamation, Vol. 42 No. 11, June 1, pp. 74-7.

McCarthy, S.W. and Barber, K.D. (1990), "Medium to short-term finite **capacity** scheduling: a **planning** methodology for capacity constrained workshops", Engineering Costs and Production Economics, Vol. 19 No. 1-3, May, pp. 189-99.

Michel, R. (1997), "Best practices make...

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Cisco's Solution Fits Rack to a 'T' -- Yes, it's expensive, but Cisco's Catalyst-ArrowPoint-PIX combo delivers all the fault-tolerance, flexibility and features an ISP could ask for.(Product Information)

Date: Sept 18 , 2000

11/6,K/8 (Item 8 from file: 16)
07873638 **Supplier Number:** 65278834

Cisco's Solution Fits Rack to a 'T' -- Yes, it's expensive, but Cisco's Catalyst-ArrowPoint-PIX combo delivers all the fault-tolerance, flexibility and features an ISP could ask for.(Product Information)
Sept 18 , 2000
Word Count: 3513
.

...and/or number of hits over time) is met, the hardest-hit content can be mirrored, via FTP, to additional backup servers to provide extra **capacity**. As "hot flashes" on your collocated content change, the **switch** can move source material dynamically to accommodate the additional load. All this is done transparently, without user intervention. Demand-based replication also is aware of...Intel's solution is 2U tall, for a total of 12U, or 21 inches, leaving room for up to 36 servers, making it the highest **capacity** solution we tested. Each 480T **switch** provides 12 ports of gigabit-over-copper connectivity and four GBIC (gigabit interface converter) ports for interswitch connectivity and **auxiliary** device support. The 7180 e-Commerce Directors connect via 10/100 connections to the solution. Intel's total density is 36 servers, with some being...ServiceWatch enables you to better plan capacity, thanks to its trending and analysis features. Extreme is the only vendor to offer a management component for **capacity planning** and server monitoring. Competing products can do health checks but can't approach the level of trending and analysis ServiceWatch provides.
Overall, Extreme's solution...

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An Efficient Decomposition Algorithm to Optimize Spare Capacity in a Telecommunications Network

Date: Spring 1999

11/6,K/9 (Item 9 from file: 15)
02776826 575738121
**

An Efficient Decomposition Algorithm to Optimize Spare Capacity in a Telecommunications Network

Spring 1999 **Length:** 12 Pages
Word Count: 5395
Text:

...either the continuous relaxation or the mixed integer version of the spare capacity network flow model.
Subject classifications: Optimization algorithm.

Other key words: Benders decomposition, **capacity**

planning, telecommunications.

The telecommunications industry standard for broadband networks is now synchronous optical networks (SONET). As with any other real-world facility, these networks are subject...at-a-time to the edges that yield the greatest increase in network restorability. Phase two is a tightening phase that first eliminates superfluous spare **capacity** and then attempts to decrease the remaining spare **capacity** by examining all possible ways of **exchanging** p units for p + 1. In practice, the maximum value of p is two.

Herzberg and Bye(12) present a two-part algorithm to solve...using Crout's method with partial pivoting. Then, each B

sup -1

sub .j

is calculated by solving L . z = (theta)

sub j
using forward substitution and solving U . B

sup -1

sub .j

= z by backsubstitution.

Various values were tested for the number of LP iterations between inversions. Of course...

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Strategic supplier segmentation: The next "best practice" in supply chain management

Date: Winter 1998

11/6,K/10 (item 10 from file: 15)
01600245 02-51234
**

Strategic supplier segmentation: The next "best practice" in supply chain management

Winter 1998 **Length:** 21 Pages
Word Count: 7143
Text:

...full-time basis. The automaker has a subsidiaries department that works with these companies on such matters as long-term strategic plans, capital investments and **capacity planning**, finance, and personnel transfers. These are, in fact, the automaker's set of closest suppliers. Not surprisingly, these suppliers produce high-value components that tend...supports the notion that firms lose power when they increase their dependency on outside suppliers.lb Further, a western legal philosophy which allows for the **substitution** of a specific relationship with a legal relationship, along with values of independence and autonomy, has contributed to arm's-length contracting.'7 By comparison, Japanese and Korean firms do not feel comfortable **substituting** a contract for a relationship and prefer to avoid any procedure that will involve a third party.'8 Moreover, some claim that Japanese cultural norms ...costs of working with and managing a large supplier set.

Second, the supplier and buyer make some dedicated investments in interfirm coordination mechanisms, such as **order** entry systems, electronic data **exchange**, and logistics systems that will get the product to the buyer where and when the buyer needs it.

Finally, the supplier is assured of some...

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A delicate balance: Symbiosis in capacity and performance analysis

Date: Jun 1996

11/6,K/11 (item 11 from file: 15)
01271770 99-21166
**

A delicate balance: Symbiosis in capacity and performance analysis

Jun 1996 **Length:** 9 Pages
Word Count: 5120
Text:

There has always been a debate as to the relative importance of performance tuning vs. **capacity planning** in the resource management process. Elsewhere, I have examined the balance between performance and capacity through all levels of the process- from application design through...

...idea returning to fashion in slightly different form.

It should come as no surprise then that the information technology specialty skill of performance optimization and **capacity planning** has also undergone changes of a cyclic nature. The lesson we may learn from this is that perhaps the most effective implementation to use today...

...were the province of the systems programmers. Performance issues fell into this category, along with sysgens, configuration planning, teleprocessing support, program products, user help, etc. **Capacity planning** was often done by the vendor. As

our profession expanded, we emulated the medical field by specializing in these and other areas of expertise.

Early...

...these analytic tools greatly enhanced the ability to plan for needed capacity to deliver required performance, they also enlarged the gap between performance analysis and **capacity planning** functions within the organization. **Capacity planning** emerged as a distinct job specialty within the data center, one that was categorically isolated from performance tuning to protect it from the fire-fighting aspects inherent in tactical performance management. Based on the need to develop an adequate command of these new monitoring and analysis tools, performance analysis and **capacity planning** began to diverge into distinct specialties.

Too specialized? While the original intentions were well founded, we may have overcompartmentalized. There is a necessary symbiotic relationship...

...cooperation and free exchange. This conflict has not diminished in the Client/Server environment.

As we take on the challenge of Client/Server performance and **capacity planning** in a period where the tools to perform both these critical functions are also in their infancy, this may be an especially fortuitous time to...

...we need to understand what these terms imply. Performance tuning is the optimization of installed resources using system parameters to deliver adequate service to users. **Capacity planning** is chartered with defining and maintaining the proper set of resources in the enterprise computing environment to satisfy user requirements in a cost-effective manner...
...is focused on maximizing the utilization of currently installed resources. It is a tactical process that is geared to short time spans (days and weeks). **Capacity planning** is concerned with the longer range (months and years) ...the anticipation of future business needs and how these translate into computing resources. I consider each discipline vital to the IT organization.

Performance analysis and **capacity planning** each requires information and insight from the other discipline to perform its function effectively. Intuitively, having insufficient resource capacity will make it impossible to extract...

...than theoretical capacity levels. Just as an automobile engine can be detuned to deliver less horsepower, computing resources can be squandered by improper performance considerations. **Capacity planning** requires a baseline of a tuned system from which accurate projections can then be made.

Performance analysts need to understand capacity issues and capacity planners...

...Both require access to accurate, consistent measurements of system performance, which are key to the development of useful models and benchmarks. Finally, both performance and **capacity planning** professionals must work together in proactive performance analysis of future applications so that an accurate and reasonable prediction of capacity can be achieved.

Codependents. Just as **capacity planning** and performance analysis are mutually dependent, the basic components of computing systems are also codependent. In fact, they have a strong impact on each other...

...The interrelationship between performance and capacity management.

The concept of codependency and symbiotic relationships should now be expanded to include the relationship between performance and **capacity planning**. **Capacity planning** is basically the process of proactively applying performance analysis to a future scenario. Therefore, the rules outlined above should and do apply.

In the interest...can be felt from inadequate performance considerations in the planning stages. Unfortunately, the structure of many IT organizations does not lend itself to the easy **exchange** of ideas between **capacity planning**, host performance, and network performance personnel. If effective multiplatform, enterprisewide computing environments are to be developed, we must encourage the creation of resource planning processes...

...time) are critical in this determination. With virtual memory, it is actually okay to not have enough real memory. Systems today are designed to use **auxiliary** memory on disk to augment real storage.

But there are, as always, performance trade-offs. Using virtual memory costs some time and cycles for data movement. **Auxiliary** storage (for paging and swapping use) results in even more time, cycles, and a lot of resources from the I/O subsystem. This can be...

...that this choice always exists serves to highlight the codependent relationship and the need for both processes.

In most organizations, the separation between performance and **capacity planning** is a result of political and organizational issues, rather than technical effectiveness. The schism evolved over time as a result of the need to specialize...

...I began this essay with a discussion of cycles in IT. At this point in the cycle of Client/Server development, both performance tuning and **capacity planning** is hampered by the lack of mature tools. On the bleeding edge of technology, it is always necessary to budget adequate time and dollars for...
...to grow your own because expertise is very scarce. So it is definitely effective to centralize knowledge and utilize scarce talent for both performance and **capacity planning** efforts.

In order to facilitate this effort, I recommend the following steps:

Consolidation of performance and **capacity planning** under a single organizational structure to best utilize available talent and to expedite the multiple discipline process that is required to analyze and optimize today's integrated, database-driven, response-critical applications that span platforms and technologies.

Development of a strategy for cross-training and information **exchange** that capitalizes upon existing in-house talent in the areas of performance and **capacity planning**.

Establishment of regularly scheduled cross-disciplinary meetings to review information and techniques in related fields of expertise, including general operating system performance (for each operating system of interest), network issues, applications design, **capacity planning**, and strategic planning.

Recognize the importance of building performance into systems early in the development process. This includes those systems which are being written from...

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The metamorphosis of midrange. (includes related articles describing how various organizations are using midrange hardware and software) (supplement to Datamation)(Directory)

Date: Sep 1 , 1995

11/6,K/12 (Item 12 from file: 148)
08140516 **Supplier Number:** 17392727 (USE FORMAT 7 OR 9 FOR FULL TEXT)
The metamorphosis of midrange. (includes related articles describing how various organizations are using midrange hardware and software) (supplement to Datamation)(Directory)

Sep 1 , 1995
Word Count: 8964 **Line Count:** 00780

...continuous availability at lower cost-of-ownership than a general purpose system customized for high availability," says Abraham. "If you take a general-purpose system, **duplicate** all hardware, add mirrored disks and extra communications lines, write scripts, set up the application for high availability, pay for consulting and training, and add
...Management and A + RF (Radio Frequency).
Financial Reporting - A+ General Ledger, A+ Accounts Receivable, and A+ Accounts Payable.
Other Modules - A+ OnSite[TM] (laptop remote **order** entry), A+ Electronic Data **Exchange** (EDI), A+ Fax (for broadcast facsimile), A+ International Currency, A+ Client/Server[R] (for Microsoft Windows 3.x), and A+ Viewpoint (executive information system).
DPS...Utility & Productivity Packages.
REAL AS1400 Support and Services - Network/ System Integration; LAN/ WAN/PC Support & Services; 24-hour Hotline Support; Planning, Installation & Training; Conversion/Migration; **Capacity Planning**/Modeling; Performance Tuning Disaster Recovery Service; Leasing Programs; Project Management.
REAL AS1400 Applications: Apparel & Textile;. Account Contact/Management; Collection Agency; Construction; Distribution; Entertainment Licensing/Royalties...

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The electric company. (utilities companies make their networks more efficient) (includes a related article on how utilities plan to diversify their businesses)(Column)

Date: August , 1995

11/6,K/13 (Item 13 from file: 275)
01836860 **Supplier Number:** 17393213 **(Use Format 7 Or 9 For** FULL TEXT)
The electric company. (utilities companies make their networks more efficient) (includes a related article on how utilities plan to diversify their businesses)(Column)

August , 1995
Word Count: 3968 **Line Count:** 00326

...like going from the horse and buggy to the automobile," says Tony Pini, vice president and director of retail customer service at Massachusetts Electric, an **auxiliary** of New England Electric (Westboro, MA).
IBM and Teco Energy, for example, have agreed to a three-month joint product demonstration in Tampa, FL of...client-server configurations, including mission-critical applications.
There are several network upgrade projects underway as well. For example, network bridges are being upgraded because of **capacity** problems and Trenkle is evaluating **switched** LAN technology. "We're looking at segmenting our LAN in areas where traffic is particularly heavy," he says.
Many T-1 lines have been upgraded...would allow her to manage LANs and WANs from a central console and include intelligent features capable of providing information on network performance, trends, and **capacity planning.** For now, she says, "I'm running around a lot to find out what's the matter."
Being a latecomer to technology has its advantages...

View: HTML | PDF | Word

Plastics technology: manufacturing handbook & buyers' guide 1995/96.(Buyers Guide)

Date: August , 1995

11/6,K/14 (Item 14 from file: 148)
08124425 **Supplier Number:** 17389671 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Plastics technology: manufacturing handbook & buyers' guide 1995/96.(Buyers Guide)

August , 1995
Word Count: 174436 **Line Count:** 15187

...1/2-in. diam.) and custom-designed units up to 8 in. All have bimetallic-lined barrels with up to 32:1 L/D. High-**capacity** thrust housings provide long bearing life. **Auxiliary** equipment includes vacuum sizers and cooling tanks (the latter with optional built-in refrigeration units), hauloffs, cutoff saws, coilers, and dies for pipe, tubing, pelletizing...

...corotating and counterrotating intermeshing and nonintermeshing modes, with screw diam. from 18 to 135 mm, for compounding and scrap reprocessing. (See Compounding, Mixing, Blending Systems.) **Auxiliary** equipment offered for complete production lines.

Universal laboratory extruder has attachments for three twin-screw modes and single-screw operation. **Auxiliary** equipment includes blown film, sheet, and profile attachments. Also hot-face pelletizing systems with capacities up to 5000 lb/hr. (See ad p. 228.)

AMERICAN...systems based on single-screw extruders. Slit tape can be produced at 2000 lb/hr or more and monofilament at 800 lb/hr and up. **Auxiliary** equipment includes ovens, quench tanks, chill rolls, slitters, takeaways, fibrillators, winders, and spoolers.

C.W. BRABENDER INSTRUMENTS INC.

Laboratory and pilot-plant single-screw extruders...automatic high-speed winders (turret, surface, and specialty types). Also cast film systems, narrow-tubing blown film lines, double-bubble lines, and custom-designed extruders.

Auxiliary items such as the post-air-ring cooling chamber, air-flotation bubble-collapsing A-frame, and ultrasonic layflat-width control, are easily retrofittable to existing...screw extrusion systems for sheet, pipe, profiles, compounding, recycle, and scrap reclaim. Four styles of extruders, four styles of sheet lines, and a variety of **auxiliary** components, including patented Doublewave screw.

Custom equipment for demanding applications includes very wide sheet, very thick sheet, coextruded sheet to nine layers, and high-throughput... Internal bubble cooling and oscillation on entire machine or first pinch section. Take-offs and winders to 600 mm for agricultural film. Wide selection of **auxiliary** equipment.

PLASTICS EQUIPMENT MARKETING SERVICES

Production and laboratory scale extrusion systems for blown film, sheet, profiles, pipe, and compounding. Extruders in 1/2-in. to...slitting, web widths to 160 in., and roll diam. to 60 in.; fixed or adjustable towers; control panels; film treaters; post-gusseters; and any additional **auxiliary** equipment/replacement parts. Also provides custom engineering, updating, and planning services.

TELEDYNE READCO

See Compounding, Mixing, Blending Systems.

TEX AMERICA, INC.

Represents Bausano of Italy...1/4 through 12 in. L/D ratios from 20:1 to 48:1.

Computer controls have tailored software, equipment and process diagnostics, SPC and **auxiliary**-equipment control. Special bases for multiple extruders or special heights and mounts also available.

WINDMOELLER & HOELSCHER CORP.

Monolayer, three-, and five-layer blown film lines...encapsulated gas blend emerges preexpanded to final density, unlike conventional frothing equipment. Submicron-sized gas cells reportedly make up for poorer insulation properties of CFC **substitutes**.

DECKER INDUSTRIES, INC.

Low-pressure and high-pressure metering/mixing/dispensing machines for PUR foams and elastomers, including RIM. Low-pressure equipment has patented Pulse...20 lb/min.

Complete urethane processing lines may include:

* Bulk storage and blending, including fiber or filler.
* Mold carriers, including clamps, turntables, and conveyor systems.
* **Auxiliary** robotics, ovens, hydraulics, and materials-handling equipment.
* SRIM preforming systems. (See ad p. 201.)

H&G INDUSTRIES

Precision meter/mix/dispense and cartridge-filling equipment...from 300 to 5000 tons with bed sizes from 40 x 40 in. to 200 x 160 in. High-precision presses available with parallelism control.

Auxiliary components include automatic GMT conveyor ovens, CNC loaders for GMT or SMC charges (max. 6 axes), proprietary gripper technology (needle, suction or mechanical type) for...can monitor cure conditions on-line inside the die. Off-line, it can perform automatic SPI gel and cure tests and print out results.

Also **auxiliary** equipment and tooling for a complete pultrusion operation, plus technical assistance, product design, composite design, prototyping, and manufacturing technology.

RADIO FREQUENCY CO. LAROSE RF SYSTEMS...Products can be up to 56 in. wide. Cure times to 10 min., cure temperatures to 500 F, and line speeds to 90 ft/min. **Auxiliary** equipment includes loaders, cutting devices, take-up and let-off rolls.

SEALANT EQUIPMENT & ENGINEERING, INC.

Low- to high-pressure meter/mix/dispense equipment for epoxy...steel and/or disposable construction.

CHEMINEER-KENICS

Motionless mixing elements include Thermogenizer for extrusion. It delivers homogenized melt streams to the die and has mixing

capacity independent of extruder output. Heat
exchangers (multitube and jacketed pipe) use Kenics elements to
enhance heat transfer to polymer melt and foam. All units are compact,
heavy-duty, have no moving...per metering auger with accuracy of |+ or -|1%
or better.
CONSTRUCTION TECHNOLOGY DIV. INVESTMENT HOLDINGS GROUP LTD.
Distributes Plas Mec (Italian) line of Turbomixers and
auxiliary components for temperature regulation and vacuum
mixing in capacities from 176 to 1760 lb/loading. Capacities from 200 to
2000 liters.
Horizontal ribbon blenders for...

...cu-ft batch sizes.
* Horizontal ribbon mixers for mixing flow-resistant materials up to
580 cu ft per batch.
* Continuous twin-ribbon mixing conveyor with **capacity** from
50 to 12,000 cu ft/hr combines mixing and conveying of bulk materials.
* Continuous twin-rotor paddle mixers blend solids with solids or...
set and actual values. Optional microprocessor controller offers color CRT,
graphic displays of measured data, automatic start-up routines,
master/slave control of main and **auxiliary** systems, storage of
production data, and interface to higher-level factory-control systems.
THORESON-McCOSH INC.
Acra-Color solids blender blends virgin or regrind with...set and
actual values. Optional microprocessor controller offers color CRT, graphic
displays of measured data, automatic start-up program, master/slave control
of main and **auxiliary** systems, storage of production data, and
interface to factory control systems. Supplies integrated systems with
feeders, pelletizers, drives and controls.
WERNER & PFLEIDERER CORP.
Complete twin...of product. Can be customized.
BARBER-COLMAN CO. INDUSTRIAL INSTRUMENTS DIV.
CIMAC 8000 manufacturing network monitor with full SPC capabilities
supervises multiple machines and handles **auxiliary** equipment
with optional integration module. CIMAC 8000 captures data for display in
graphic or tabular form for on-line analysis. Data can be transmitted to...

...connect virtually any type of machine to the Barco system. Interface to
monitor microprocessor-based machines available. Hardware and software
available to include monitoring of **auxiliary** equipment and to
integrate Barco system with ...update requirements for
production-scheduling and material-planning modules. Production scheduler
provides forward and backward (finite and infinite) scheduling, JIT
scheduling, forecast scheduling, and production-**capacity**
planning of all machines and secondary operations. Products are
automatically scheduled to machines that produce that type most
efficiently. Reports include material planning, manufacturing efficiency,
utilization...mold design, mold costing, mold analysis, flow analysis, FEM,
integrated accounting, manufacturing planning, mold and tool tracking,
equipment maintenance, barcoding and data collection, inventory control,
capacity planning, scheduling, order entry, EDI,
purchasing, human resources, SPC/SQC, machine monitoring and control,
process control, brand management, and sales-force automation.
Hardware platforms include PCs...on larger machines. Features include
four-function programmable math capability, automatic machine setup with
Insta-Set internal and external (cartridge) recipe storage, SPI protocol
for **auxiliary** communications, high density d-c I/O functions,
supervisory computer communications, and internal SPC package.
Choice of flat-panel electroluminescent (EL) or LCD operator station
...

...black-and-white touchscreen operator stations, Insta-Set solid-state
cartridges for recipe storage and fast setup, MACO-Pac dedicated
machine-function control modules, and **Auxiliary** Equipment
Integration Module (AEIM) for manufacturing-cell control. SPC/SQC module
reports ...HENNECKE MACHINERY
System controls for manufacturing polyurethane products. Control
panels with PLC and microprocessor include controls for foam metering
equipment and can include controls for **auxiliary** equipment such
as turntables or fixtures.
BERSTORFF CORP.
Electrical Control Systems Div. provides control systems for extrusion
of sheet and film, as well as batch...

...millisec timing or ISA bus architecture, 386 and 486 32-bit
microprocessors, DOS platform, plotting and graphics, real-time clock, soft
keys, printer output, and **auxiliary**-equipment interface.
Controls are programmed with Mechanism Control Language (MCL), which offers
complex logical and mathematical functions and English-language words and
abbreviations. Ladder Diagram...
...control system, E-4000 closed-loop system for machines to 1000 tons, and
E-8000 and E-4500 for machines requiring unlimited I/Os for
auxiliary-equipment integration, closed-loop process control,
and other features.
EUROTHERM CONTROLS, INC.
EM-2 Extrusion Master complete extrusion control system is based on
totally distributed...for new or used injection molding machines. Retrofit
packages include complete programming and installation services.
Scoremaster EL provides sophisticated machine sequence control, PID
barrel and **auxiliary** temperature control of up to 40 zones,
open- or closed-loop pressure and flow control, linear positioning, and
comprehensive diagnostics. Storage and retrieval of mold...Band heaters
including Mighty Miser ceramic, Mighty-Tuff high-temperature, Aluma-Flex
aluminum, and mica types. Replacement heaters for injection, extrusion,
blow molding, thermoforming, and **auxiliary** equipment shipped
from stock.
OMEGA ENGINEERING INC.
Heating cables and strip, cartridge, tubular electric, immersion, and
band heaters, as well as laboratory and specialty units...

...in converting thermoforming equipment to gas catalytic heating.
TEMPCO ELECTRIC HEATER CORP.
Electric heating elements, thermocouples and related accessories, specializing in injection molding, extrusion, and **auxiliary** applications. Products include cast-in aluminum or bronze heater/cooler units for extruder barrels and dies. High- or low-watt-density cartridge heaters for hot...multizone units in compact, panel-mounted, 16- and 32-zone modules. Capacity can be extended to any number of zones using remotely mounted, 30-channel **auxiliary** modules that operate under supervision of panel-mounted unit.
For extrusion, both single- and multizone models can use patented Duosense system, which uses a deep...

View: HTML | PDF | Word

Capacity\ planning for VARs.

Date: April , 1995

11/6,K/15 (Item 15 from file: 275)
01814711 **Supplier Number:** 17323220 **(Use Format 7 Or 9 For** FULL TEXT)
Capacity planning for VARs.

April , 1995
Word Count: 4990 **Line Count:** 00406
Capacity planning for VARs.

Abstract: Capacity planning and performance tuning are essential tasks for integrators and VARs. Before building the network, the integrator must determine how the network bandwidth will be used and determine how broadcast storms may affect it. **Capacity planning** and performance tuning are typically billed at a high consulting rate, and many organizations protest having to pay for what they may incorrectly perceive as...
Abstract:

Text:

As a VAR, integrator, or consultant, you are a network architect. Here's how to use **capacity planning** and performance tuning to strengthen your structures.

...expectations, and others are based upon perception and market forces. As a result, any solution is part technical, part training and development, and part marketing.
Capacity planning and performance modeling answers are like structural reports on a building. For example, answers may suggest that 32 percent of the framework welds in a...

...you are the architect. The question is: Can you answer your customers' performance, stress, capacity, and expansion questions intelligently? Based upon what? The climate of **capacity planning** and performance for networking and system design is changing from laissez-faire to an essential and critical role. Networks are the buildings of customers' futures, and these networks can be modeled with statistical tools in a systematic and cost-effective way.
Part of **capacity planning** and subsequent performance optimization is setting expectations, and too often a potential customer is not willing or able to reconcile these expectations. I can easily...
...of the infrastructure, software architecture, or database structure. Replication and distributed processing, as with Lotus (Cambridge, Mass.) Notes, is one of those killer applications where **capacity planning** is essential and thoroughly dependent upon infrastructure and configuration. You axe likely to see similar issues with Dynamic Data **Exchange** (DDE), Object Linking and Embedding (OLE), and compound documents.
Capacity planning and performance tuning require honed communication skills for dealing with the top echelon, which controls the purse strings in every organization. You have to talk money, risk, results, and strategy. (Figure 1 demonstrates relative costs for **capacity planning** and performance tuning tasks.) Real solutions are often counterintuitive--for example, If you think you can shift a customer from 10BaseT or Token Ring to 100Mbps Fast Ethernet to solve its capacity problems, you are rolling the dice with five out of six chances to fail! **Capacity planning** and performance optimization are about integrated systems doing involved processes. They do not fail easily, but they do resist change for the better.
Unfortunately, sometimes...

...First, the LAN and PC market is loath to pay for consulting services until it needs the manpower, expertise, or strategic business re-engineering. Second, **capacity planning**, performance analysis, and tuning are really big-ticket items--I currently bill $275 per hour for these services -- and most organizations balk not only at...for LANs. LANs are becoming internetworks, and these data enterprises provide critical business services. People with skills, technical methods, and tools for performance tuning and **capacity planning** will find a growing need for all of them as the market matures and **capacity planning** and performance tuning become mainstream services.
There is one way to make an end run around these pitfalls: Sell the tools for performance tuning and **capacity planning** directly to customers. These are big-ticket items with high margins. However, before you assume this is an easy solution, realize that you will be...

...occur at the breakneck pace of millions of times per second on a network.
PERFORMANCE DATA COLLECTION TOOLS
The success of any performance tuning and **capacity planning** depends upon the quality of your performance data. Your

selection of modeling and simulation tools will drive the choice of performance data collection tools. Some...View, Network General's Sniffer, and the HP line of protocol analyzers.
PERFORMANCE ANALYSIS AND MODELING TOOLS
There are number of viable modeling tools for **capacity planning** and performance tuning. But do not merely model network bandwidth without looking at server or host capacity. Do not model only network latency if the...

...geared more toward WAN components and optimizing the operating costs for long-distance lines based upon tariff rate databases. Not only will these tools provide **capacity planning**, they also will allow you to figure out the lowest-cost route between cities. This is very important when the setup cost for frame relay...

...modeling setup with one good call on a customer. Alta's BONES and CACI's COMNET, shown in Figure 3, are better tools for internetwork **capacity planning** and performance tuning because the input parameters for intermediate nodes are flexible; you can model various routers, router meshes, or switch configurations. Analyzer relies upon...

...are generic modeling tools. They can model production line throughputs, perform traffic planning for a town center, and simulate network operations. This opens up the **capacity planning** and performance modeling to more complex and detailed models, although it forces you to define your model, literally program it, and gather data sufficient to fuel the calculation engine. They are very flexible, but correspondingly complex.
Capacity planning and performance modeling tools for the masses are emerging. Network General and Optimal Networks have created a platform that applies the best of the Sniffer...building, up-front mandatory training, and the weeks needed to specify the network and run all the model permutations. If your essential need is for **capacity planning** and performance tuning, you may need a tool kit of one, two, or more tools to cover your needs. Although this technology has been around...

...of the network, bandwidths, latencies, and effects of downsizing, network redesign, and growth.
SO, WHAT DO YOU DO?
Armed with all of this information about **capacity planning** and network modeling, you're now ready to step into those scenarios that introduced you to this article:
1. When the system you installed doesn...

...represent only the most obvious and visible bottlenecks. You also need to delve into the system configurations, code, and SQL optimization through precompilation or command **substitution**. Look at the big picture and do not get side-tracked by simple solutions because they are available. Simple solutions are not complete solutions. The...

...how you can help the customer.
One of the serious problems that seems to hamper large companies is that they mistake network performance problems with **capacity planning** issues. Of course, PowerBuilder and other GUI front ends run slowly over the network. These tools do a lot of work and require a lot...I would presuppose infrastructure problems if the system is brand new, or if it is old and less functional than it used to be. Sometimes **capacity planning** is not the first step and not the best technique. Bring on the pair scanners, the protocol analyzers, and the network management stations. If the...

...hardware problems about 90 percent of the time. If you strike out, the troubleshooting process is still useful because you've collected performance data for **capacity planning** and modeling. Feed the data into a network model, and you'll be off and running.
6. If a client-server system installed by a...

...Whenever you model a pre-existing capacity problem, remember to project growth so that you maintain your credibility and foresight into ongoing network operations.
CONCLUSION
Capacity planning and performance tuning represent the same process. Performance tuning is what happens after you have the bottleneck, whereas **capacity planning** is what you do to prevent surprise bottlenecks. **Capacity planning** and performance tuning make up the technical architectural process for qualifying network and system designs--do not choose between the two, because both are essential...

...Optimization, Computer Performance Optimization, and, his newest, Enterprise Network Performance Optimization. His company, Network Performance Institute, provides multimedia production and network consulting services, and markets **capacity planning** and network configuration software.

View: HTML | PDF | Word

Social costing of electricity in Maryland: effects on pollution, investment, and prices.

Date: Jan , 1995

11/6,K/16 (item 16 from file: 148)
07863507 **Supplier Number:** 16875029 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Social costing of electricity in Maryland: effects on pollution, investment, and prices.

Jan , 1995
Word Count: 8860 **Line Count:** 00735

...to employ customer demand responses for electricity and to explore the

implications of social-costing-induced increases in the price of electricity for demand for **substitute** fuels; (ii) it includes a broader range of social costing regimes than any single existing study; (iii) it explicitly incorporates S[O.sub.2] allowance...

...demand component with separate season-specific constant elasticity demand equations for residential and commercial electricity customers.(3) The utility model is also linked to a **substitute** fuel demand and emissions model which is used to simulate the implications of social-costing-induced changes in the price of electricity for demand for natural gas (the primary **substitute** fuel) and associated emissions of selected pollutants.(4) A third model which simulates inter-state power transactions provides information on the costs of imports to...

...of technologies). Under a Planning regime the utility must take the full expected social cost of each potential new generating unit into account in its **capacity planning**. However, the utility is free to base its operating and dispatch decisions on private costs alone. The total expected social cost has three components: ...the analysis are the Single Utility Planning and Dispatch Model with Elastic Demand (SUM), the Multi-Region Utility Planning and Dispatch Model (PADRE), and the **Substitute** Fuel Demand and Emissions Model (SUBDEEM). Each of the three models is briefly described below.(9)

The Single Utility Model

The single utility planning and...

...into the single utility model of MECO where it is treated as one of the many supply options in the planning and dispatch problem.

The **Substitute** Fuel Demand and Emissions Model (SUBDEEM)

The piecemeal application of social costing to electricity to the exclusion of other fuels may lead electricity consumers to...of electricity will affect demand for other fuels and emissions associated with the use of those fuels.(13) The SUBDEEM model provides forecasts of both **substitute** fuel demand and emissions impacts of social costing. A single **substitute** fuel, natural gas, is analyzed since it is by far the most likely **substitute** for electricity among MECO customers.

The SUBDEEM model is comprised of two components: the gas demand equations and the emissions equations. The gas demand equations...

...Additional emissions of each pollutant are assumed to be linearly dependent on the additional quantity of fuel consumed. In general, these emissions are not directly **substitutable** for emissions at the power plant. Emissions from gas appliances take place at customer sites from much lower stacks than those associated with emissions from... ...of the remainder. Between 1993 and 2003, the utility shifts completely out of oil to natural gas, due both to the addition of new gas **capacity** and fuel **switching** at existing units, and almost completely from 2% sulfur coal to 1.4%. However, with the addition of the new IGCC units, the utility begins...

...less expensive and easily gassified. MECO also purchases more 2% sulfur coal as it builds more scrubbers for its existing units.

The combination of fuel **switching** in 1998 and the plan to scrub some existing generating **capacity** allows MECO to be a net seller in the S[O.sub.2] allowance market in 1998. However, the introduction of phase II standards in...research suggests that regimes which focus on planning only may have the opposite effect. Finally, how will social costing affect demand for electricity and for **substitute** fuels?

Comparing Regimes under MID External Cost Adders

This section highlights the comparison among different social costing regimes given a set of adders. We focus...

...costing than under the base case.

These investment results are mirrored in the generation results shown in Figure 3. We refer to this tendency to **substitute** existing capacity for new capacity as an anti-new-source bias. The anti-new-source bias results from the asymmetric treatment of new and existing...OF THE SUBDEEM MODEL

When social costing regulation leads to higher electricity prices, consumers will respond by reducing demand for electricity and increasing demand for **substitute** fuels. In this section we present the results of our analysis of the impacts of social costing-induced ...12. More information on the PADRE model is available from the authors.

13. Ideally, the potential for higher external costs associated with increased use of **substitute** fuels under social costing will be taken into account in the development of the external cost adders. Burtraw et al. (forthcoming) have derived an expression...

...Their model focuses exclusively on the Planning form of social costing. Burtraw, Palmer and Krupnick (1993) refine this conversion factor to take into account multiple **substitute** forms of energy and multiple customer classes. They then calculate conversion factors for three hypothetical utilities. Woo et al. (1994) derive similar adjustments to emissions...

...pricing. Since the focus of this paper is not on the adder values themselves, we do not attempt an ex ante adjustment to account for **substitution** or bypass effects, but instead analyze these effects ex post.

14. The fact that 2013 is the last year of the simulation could also be...

...16. This graph only covers emissions associated with the generation of electricity. Therefore, it does not reflect any additional emissions resulting from increased use of **substitute** fuels under the different social costing scenarios.

17. The one exception to this finding is that the price impact under

Planning with Dispatch and MID level adders is lower than that under Dispatch because the utility **substitutes** low cost imports for generation from new capacity under this regime.
18. Under the Planning with Dispatch and Social Cost Pricing regimes with LOW adders...

View: HTML | PDF | Word

Diversification and diversifact

Date: Fall 1994

11/6,K/17 (item 17 from file: 15)
00939638 95-89030
**
Diversification and diversifact

Fall 1994 **Length:** 20 Pages
Word Count: 8116
Text:

...planning, mechanisms of adapting, styles of managing, as well as the strength of the corporate culture holding all this together. To some extent, these can **substitute** for each other (as when more teamwork replaces some logistics planning). But perhaps more important are their complementarities (as in enhancing teamwork with logistics planning ...organization must, therefore, have sufficient bulk over a good base--strong businesses and sufficient synergy among them. After that, it can begin to attend to **substitutions** between ...venturing, while those which have relied on adapting mechanisms, such as Apple and Arthur D. Little, have experimented with ad-hoc processes for resource and **capacity planning**.

Other companies, while accepting a suboptimal position at any point of time, have sought to shift from time to time, compensating for imbalance by periodic...a denial and refutation of some earlier "false promise".

In the 1970s, diversification was strategy. Driven by the seductive portfolio models, companies were urged to **exchange** dogs for stars in **order** to maintain perpetual corporate youth on the strength of their internal capital markets. Problems in the many companies that succumbed to this formula then led...

View: HTML | PDF | Word

Management: Divide and rule

Date: Jan 1994

11/6,K/18 (item 18 from file: 15)
00814989 94-64381
**
Management: Divide and rule

Jan 1994 **Length:** 3 Pages
Word Count: 1351
Text:

...on their private network. This requirement is not necessarily diminished by using a VPN. VPN customers still wish to monitor utilisation on elements such as **exchange** lines and national network channels to ensure that there is an appropriate level of **capacity** to meet service levels while minimising cost. They will identify most frequently-dialled numbers to determine whether those numbers should be on the VPN or...at the very least be able to obtain call records for post processing. They will also receive a number of summary reports including, for example:

* **capacity planning** reports

-- access line busy hour

-- national networking channel busy hour

-- line traffic

-- most frequently dialled number

* service progress reports on orders placed

* trouble ticket reports...

...is about savings in network management personnel as a result of implementing VPNs. Organisations like Coopers and Lybrand, which have implemented a VPN as a **substitute** for use of the PSTN, have done so without taking on staff. In contrast, some organisations like Barclays Network Services, which have implemented VPN services as a **substitute** for a private network have yet to reduce staff. However, experience from other organisations suggests that staff savings can result from moving from a private...

View: HTML | PDF | Word

Management: divide and rule. (virtual private networks and centrex services change network and service management)(includes related article)

Date: Jan , 1994

11/6,K/19 (item 19 from file: 148)
07194459 **Supplier Number:** 15134596 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Management: divide and rule. (virtual private networks and centrex services change network and service management)(includes related article)

Jan , 1994
Word Count: 1625 **Line Count:** 00135

...on their private network. This requirement is not necessarily diminished by using a VPN. VPN customers still wish to monitor utilisation on elements such as **exchange** lines and national network channels to ensure that there is an appropriate level of **capacity** to meet service levels while minimising cost. They will identify most frequently-dialled numbers to determine whether those numbers should be on the VPN or...at the very least be able to obtain call records for post processing. They will also receive a number of summary reports including, for example:
* **capacity planning** reports
-access line busy hour -national networking channel busy hour -line traffic -most frequently dialled number
* service progress reports on orders placed
* trouble ticket reports...

...is about savings in network management personnel as a result of implementing VPNs. Organisations like Coopers and Lybrand, which have implemented a VPN as a **substitute** for use of the PSTN, have done so without taking on staff. In contrast, some organisations like Barclays Network Services, which have implemented VPN services as a **substitute** for a private network have yet to reduce staff. However, experience from other organisations suggests that staff savings can result from moving from a private...

View: HTML | PDF | Word

An integrated decision support system for global logistics

Date: 1994

11/6,K/20 (item 20 from file: 15)
00895310 95-44702
**

An integrated decision support system for global logistics

1994 **Length:** 11 Pages
Word Count: 6386
Text:

...g. population, population growth, per capita income), economic infrastructure (e.g. the state of economic development, common market participation), market segment, competition, the threat of **substitution** or new entrants, negotiability, foreign market entry mode, banking and capital system.

4. Channel data--supply chain, communication channel, type of intermediaries and facilitators, channel...

...an efficient, effective manner using state-of-the-art computer and communication technologies[14]. Potential applications of EDI to global logistics include air cargo tracking, **order**/delivery confirmation, freight reservations, cargo booking, damage control, shortage/overage adjustment, bill of lading **exchange**, shipping/billing notice, automated billing/payment and transmission of routeing/carrier information (see, e.g. Lavery [15,16]). For example, American Consolidation Services (ACS)-Stride...understanding- of key logistics operations among customers, intermediaries and manufacturers[22]. Good examples of network models may include models dealing with nodal location-allocation, terminal **capacity planning**, computer-communication, data file merging, pipeline network design and production-distribution problems.

(3) Transport model--Since transport is the core of all the global logistics...communication via videoconferencing can drastically reduce travel cost and time[3]. In addition to reducing transport cost, the IDSSGL can reduce inventory carrying cost by **substituting** information for inventory investment[34].
(4) Reduced paperwork and documentation cost--There is an old joke among logisticians that, in global logistics operations, the weight...

View: HTML | PDF | Word

Six stages of IT strategic management

Date: Summer 1993

11/6,K/21 (item 21 from file: 15)
00741268 93-90489
**

Six stages of IT strategic management

Summer 1993 **Length:** 11 Pages
Word Count: 6185
Text:

...of those forces.(14)

* STRATEGIC GRID. McFarlan analyzes some of the factors that will actually determine the characteristics of the competitive forces, such as the **capacity** for generating barriers to entry, for building **switching** costs, for changing the basis of competition, for changing the power in supplier relationships, and for generating new products.(15) In addition, he uses the...to evaluate the benefits of an IT investment. The traditional techniques for evaluating projects and allocating resources are especially inappropriate when the projects are highly **tentative** and when their value comes from the strategic opportunities they can open if they are successful. In this respect, IT is like research and development management procedures of the IT group may be profoundly affected. The adjustment of rewards, project control mechanisms, and **capacity planning** of the IT resource are but a few of the issues that require special attention.

Second, to thoroughly internalize the IT strategy in the IT...

View: HTML | PDF | Word

The networking voyage: Looking back, looking ahead

Date: Jun 1993

11/6,K/22 (item 22 from file: 15)
00908952 95-58344
**

The networking voyage: Looking back, looking ahead

Jun 1993 **Length:** 8 Pages
Word Count: 4389
Text:

...job have changed (see table on pg. 46). (Table omitted) When Networking Management was launched, network design for voice networks was largely a matter of **capacity planning** and reliance on the telephone company to supply appropriate circuits. Data network design involved calculating known traffic loads (often for remote data entry) and ordering...but in this one it's compounded by the fact that fundamental change is underway in so many core elements of the business. For instance:

* **Order** of magnitude advances in core technologies, specifically semiconductors, occur every four to five years.

* The **switch** from analog to digital in the U.S. telephone plant has practically taken place. As of last year, more than 50% of local access lines...cellular operators. IXCs will do so in response to telco bids to sell long-distance services, cellular operators will do so as a result of **substituting** wireless technology for wireline facilities.

The outcome in the local exchange arena is likely to be as inevitable as it was in the long-distance...

View: HTML | PDF | Word

Notebook Computers

Date: Jun 22, 1992

11/6,K/23 (item 23 from file: 15)
00626482 92-41584
**

Notebook Computers

Jun 22, 1992 **Length:** 7 Pages
Word Count: 6332
Text:

...IBM L40SX, use full travel (meaning that they can be depressed 3mm) vs. short travel (1mm to 3mm movement). The advantage is that these keys **duplicate** the feel of a desktop keyboard.
Most of the users interviewed were happy with their keyboard, although many said it took some getting used to...little as is workable, gradually expanding as necessary. But some vendors (such as IBM) commit you up front to certain module sizes, which you must **substitute** with larger ones to upgrade. OS/2 will benefit from faster memory, so RAM should not be slower than 70 nsec. IBM and Aquiline offer...MANAGEMENT

POLYCENTER Solution performance tools ensure that your computing system is working efficiently and at full capacity. Included are products for performance analysis, optimization, and **capacity planning**.

4 SECURITY MANAGEMENT

These products and services are your system "watchdogs"--ensuring appropriate security compliance and providing intrusion detection for your company-wide computer environment...

...digital parts. In addition, each refurbished HDA comes with a one-year return warranty. Here's a sampling of the savings on refurbished HDAs with **exchange**.(Table omitted)

Refurbished HDAs without an **exchange** are also available. For information or to **order**, call 800-225-5385.

View: HTML | PDF | Word

Switch-to-computer links: the first two years.

Date: March , 1992

11/6,K/24 (item 24 from file: 148)
05822759 **Supplier Number:** 12093271 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Switch-to-computer links: the first two years.

March , 1992
Word Count: 2641 **Line Count:** 00214

...computer languages, operating systems and databases found on PCs and local area networks.
3. Provide a comprehensive set of services, including configuration management, traffic reports, **capacity planning** tools and alarms. The packages from the **switch** and computer vendors provide logging and alarms information only about the link itself, not the overall system.
4. Become self-sufficient. One of the important...

...they would deploy SCAI features, are confident that the investment could

have a payoff of less than 18 months and have made at least a **tentative** selection of vendors, the business climate does not allow the project to start. When management demands cutbacks in expenditures-both capital and operating-communications-related...

View: HTML | PDF | Word

Special report: Universal telephone service; ready for the 21st century? Annual review of the Institute for Information Studies. A joint program of Northern Telecom and the Aspen Institute.

Date: Dec 2 , 1991

11/6,K/25 (Item 25 from file: 148)
05583707 **Supplier Number:** 11634236 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Special report: Universal telephone service; ready for the 21st century? Annual review of the Institute for Information Studies. A joint program of Northern Telecom and the Aspen Institute.

Dec 2 , 1991
Word Count: 61595 **Line Count:** 05008

...town. Soon, however, more complex arrangements evolved.
Physical range increased and involved other domestic telephone companies and then international carriers.
Organizations also used an internal **switching capacity**, first by manual switchboards and later by private automatic branch **exchanges** (PABXs), with functions similar to those of a telephone company switch. Users added increasingly "smart" electronic equipment and interconnected it, especially after the 1968 Carterfone...Solingen and Sheffield for cutlery, Lyons for silk, Hollywood for films, Silicon Valley and Route 128 for microelectronics.
Production clusters create economies of aggregation that **substitute** for the economies of scale and scope of the giant multi-product firm. Physical proximity was a key. But now, group networks can serve many...

...Governments might try to maintain systems of internal redistribution by resorting to taxation and allocation. A value-added tax on communications would be a sensible **substitute** for the present hidden system. But it will not be easy to define what will be taxed, or to measure it, or to prevent the...regulation, the importance of analyzing service quality in telecommunications has grown. In a network of networks, degrees of quality offered by various components become interdependent.
CAPACITY PLANNING IN A DECENTRALIZED ENVIRONMENT.
With the decentralization of networks and their interconnection, independent suboptimizing decisions on investment and capacity might not result in overall efficiency...was connectivity and the ability to interact with others. Both saw the telegraph's ability to reduce distance as a great achievement and wanted to **duplicate** it or even transcend it through the medium of the telephone. For a while in rural areas, the telephone network, of very low quality and...telephone system before divestiture was a continual upgrading of service in a relatively uniform manner. The historical portion of Figure 6 shows how smoothly new **switching** technologies were introduced and their predecessors phased out under the single Bell system. But in **order** to be allowed to have his monopoly, Vail and his successors had to accept governmental oversight, including control over rates and some policies.
It is...are now so different that extrapolating from the past cannot provide insights into the future. The predictive portion of Figure 6, for example, assumes that **substitutions** in switching technologies will occur in the same smooth way they did when almost the entire system was controlled by a single company; as the number of entrants into the market increases, the likelihood of a such a smooth **substitution** decreases.
It is a cliche that we can master or be mastered by technology, but it is nonetheless true. The new communications technologies clearly have...of the training, customer premise hardware or courseware necessary to make technology infusion effective in a K-12 environment.
One doesn't need the vast **capacity** of NREN to **exchange** simple electronic mail. There are many alternative, if slower, networks available already. Using supersophisticated NREN for such mundane tasks might be like trying to get...versus tomorrow's information services is undergoing fundamental change in an information age. As more and more social and commercial services rely on telecommunications to **substitute** for interpersonal communications the basic notion of universal service, the essential contribution of telephone access to effective participation in society must be kept clearly defined...and differing forms of management techniques will have an effect on the corruption factor.
Only the extremely naive would believe that competition is able to **substitute** for all forms of regulation. Some degree of regulatory adjustment and oversight is clearly needed. Regulatory agencies like the Federal Communications Commission (FCC), which were...

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